



Cambridge Lower Secondary Mathematics

Tutorial 3

Year 7

Instruction : Answer all the questions below.

Time allocated : 1 hour

Total marks : / 35

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QUESTION 1

Solve the following questions.

- i. $-4 + 6 =$
- ii. $9 + (-5) =$
- iii. $-8 - 7 =$
- iv. $9 - (-6) =$
- v. $-8 \times 6 =$
- vi. $-12 \times -7 =$
- vii. $9 \times (5 + -8) =$
- viii. $-81 \div 9 =$
- ix. $96 \div \underline{\hspace{1cm}} = -12$
- x. $132 \div (-6 - 5) =$

[10]

QUESTION 2

Find the lowest common multiple of 9 and 12.

[1]

QUESTION 3

Find the highest common factors of 36 and 84.

[1]

QUESTION 4

Use tests for divisibility to show that 67524 is divisible by 2 and by 4 but not by 5.

[3]

QUESTION 5

Solve the following questions.

- i. $5^2 =$
- ii. $3^3 =$
- iii. $\sqrt{121} =$
- iv. $\sqrt[3]{125} =$
- v. $\sqrt{169} - \sqrt[3]{64} =$
- vi. $\sqrt[3]{216} \times \sqrt{64} =$

[6]

QUESTION 6

Write an expression for each of these situations.

- i. x more than $y =$
- ii. r three times more than $p =$
- iii. two s less than four times $t =$
- iv. four times a divide by $b =$

[2]

QUESTION 7

Which of the following expressions are the equivalent expressions. Circle the equivalent expressions.

$$2a + 2$$

$$2 + 2 + a$$

$$2 + 2 \times a$$

$$2 \times a + 2$$

[1]

QUESTION 8

Jenifer writes a formula for the number of hours in any number of days.

He writes : number of hours = $24 \times$ number of days

- Explain why this formula is correct.
- Write the formula using letters. Use h for hours and d for days.
- Use your formula to work out the number of hours in six days.

[3]

QUESTION 9

Simplify each of these expressions.

a) $5a - 4a + 8a - 2b - 8b + 6c =$

b) $12 + 8g^2 - 5h + 9h - 6g^2 - 4 =$

[2]

QUESTION 10

Expand the brackets.

a) $5(x + 3) =$

b) $8(2w - 4v + 5) =$

[2]

QUESTION 11

Solve these equations.

a) $x - 9 = -18$

b) $9n = 72$

c) $3w + 5 = -12$

d) $2u + 4 = 14$

[4]